



Inventor Name: [Redacted] S. Hartmann  
Case Name and No.: RF-SC-0001  
Title of Application: "Surface Acoustic Wave Identification Tag Having Enhanced Data Content and Method of Operation and Manufacture Thereof"  
Attorney of Record: Jimmy L. Heisz  
Phone No.: (972) 480-8800

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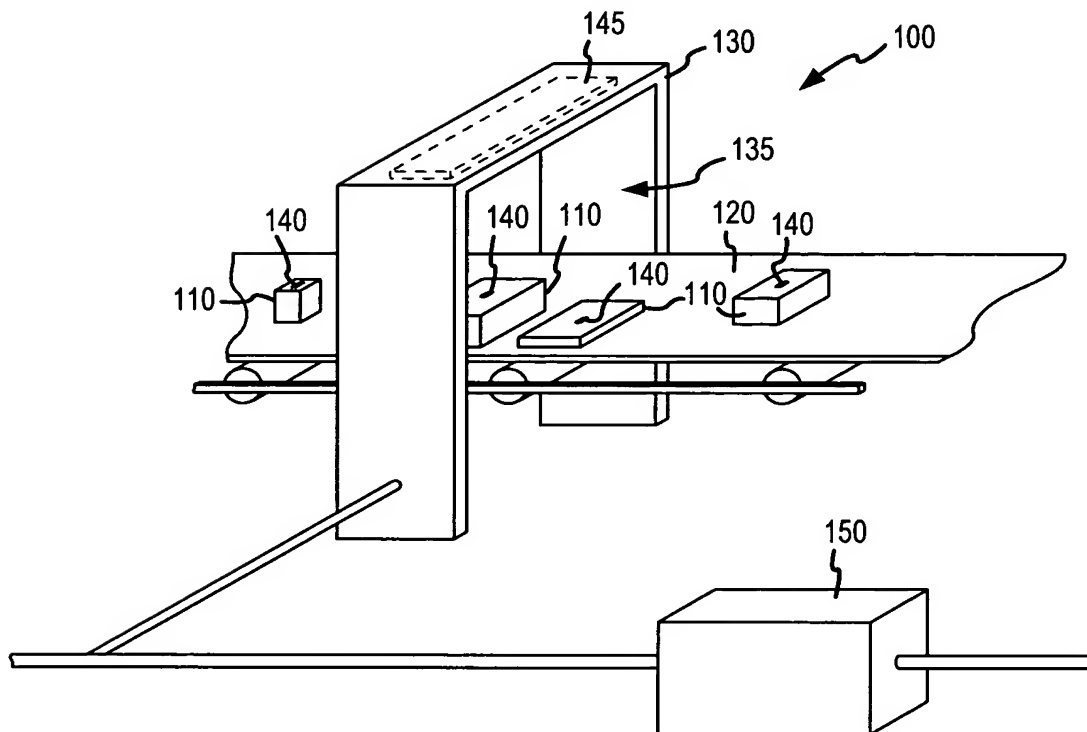


FIG.1



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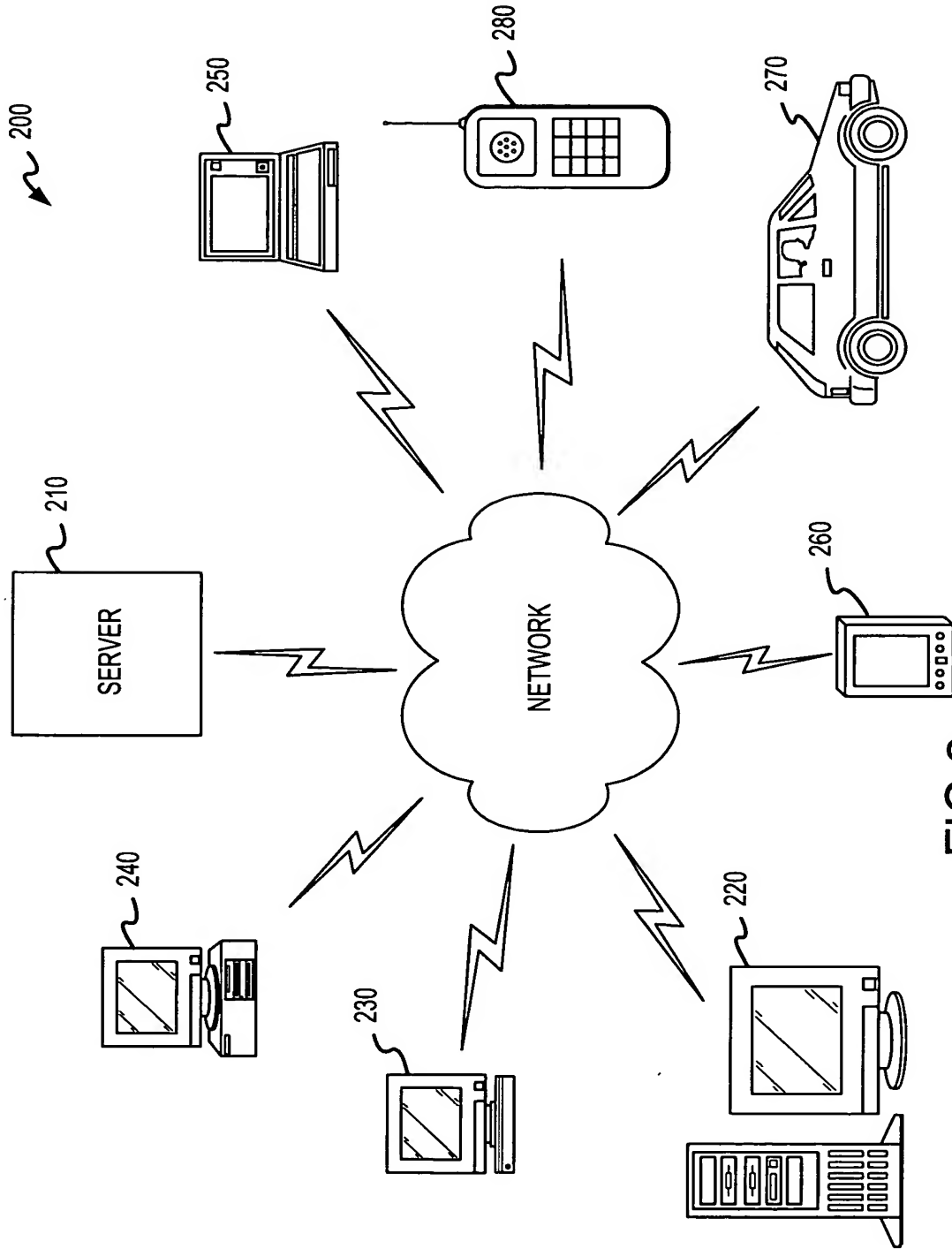


FIG.2





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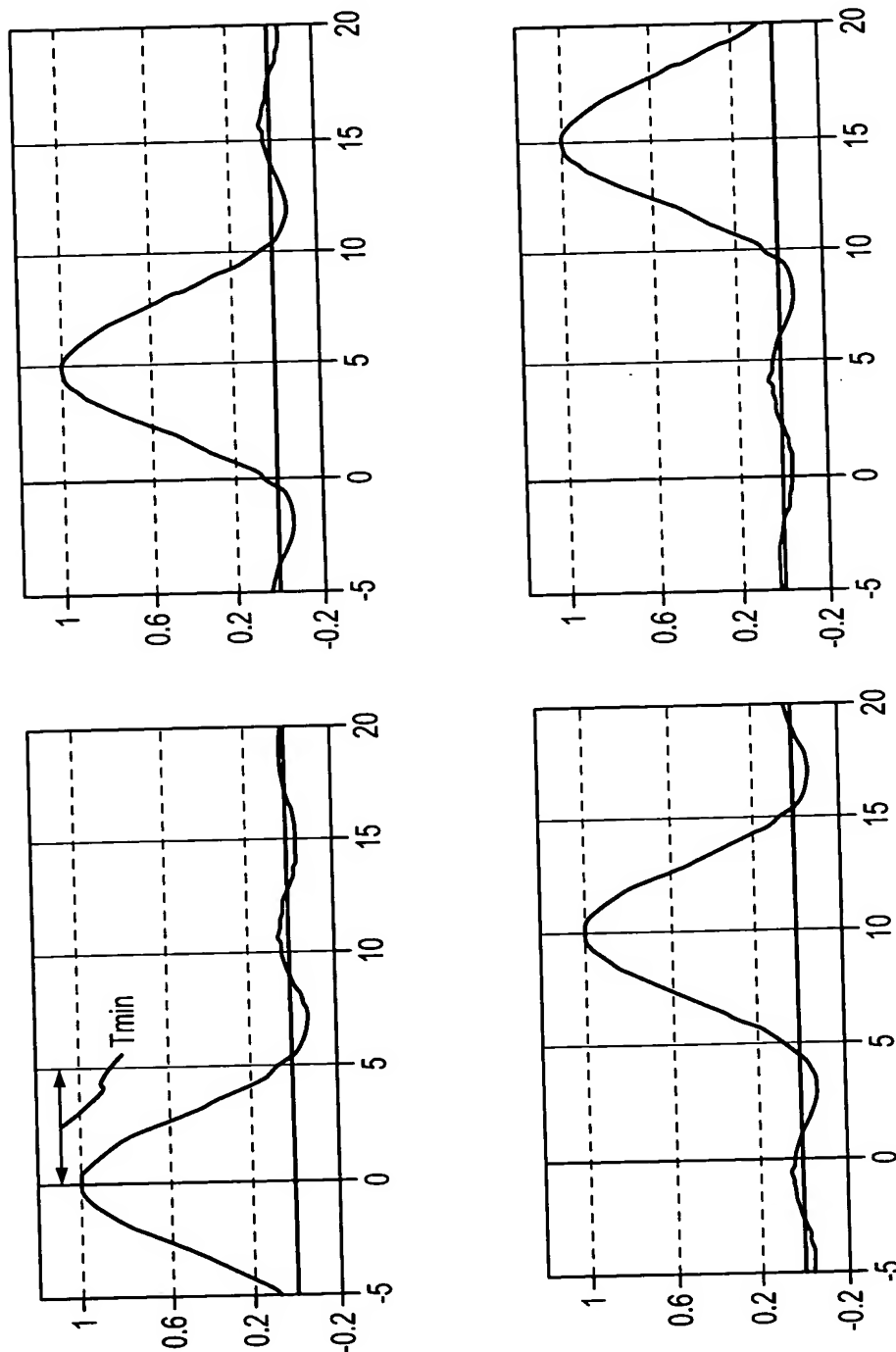


FIG.4



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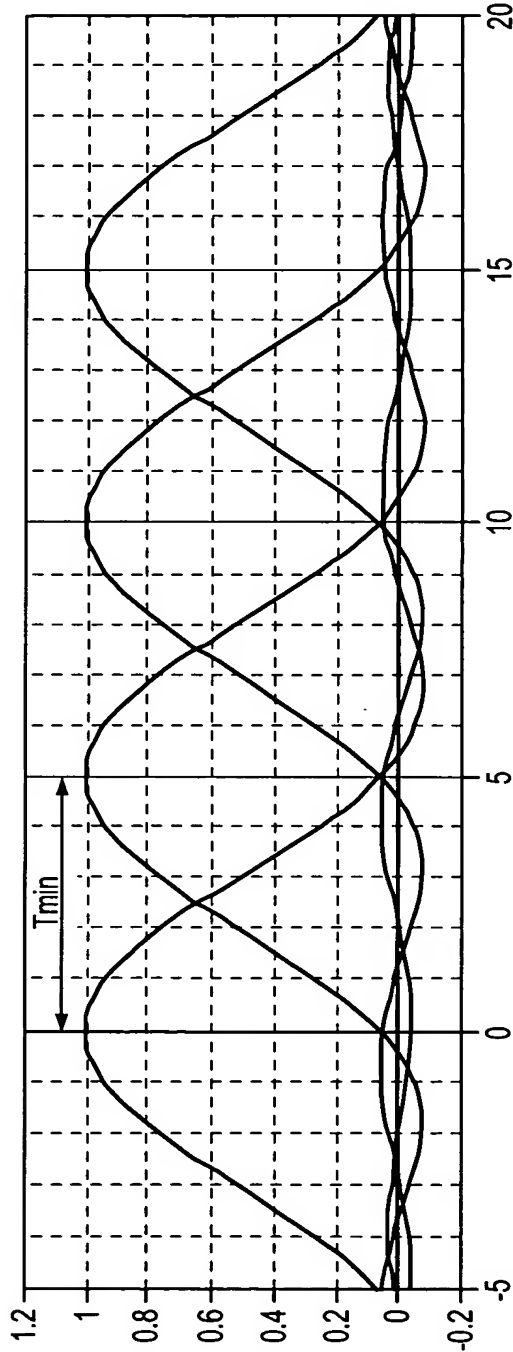


FIG.5



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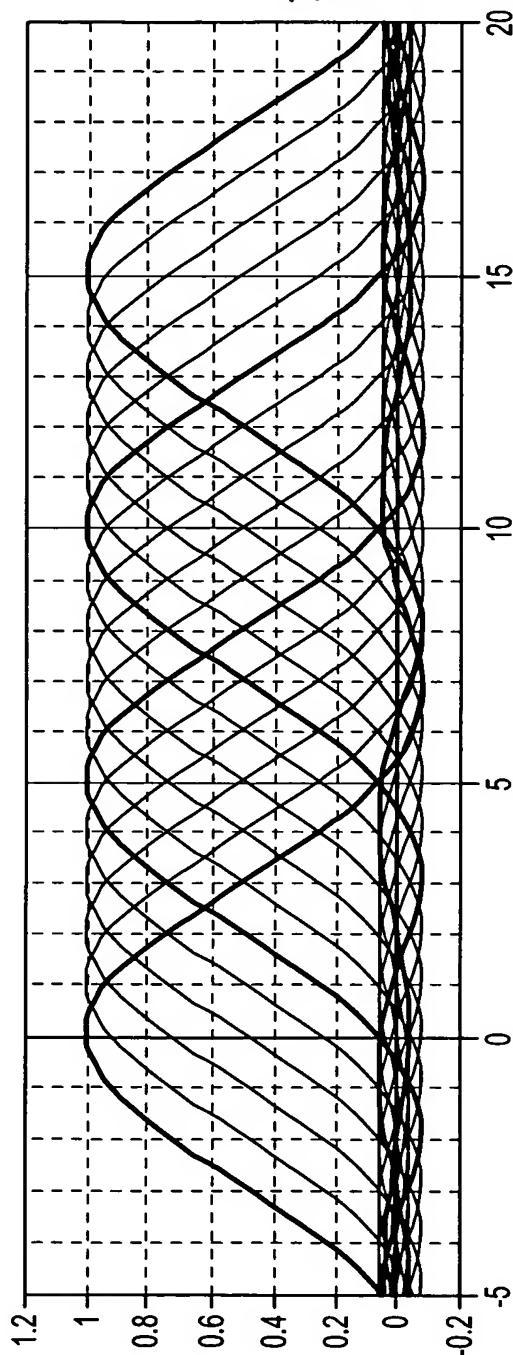


FIG.6



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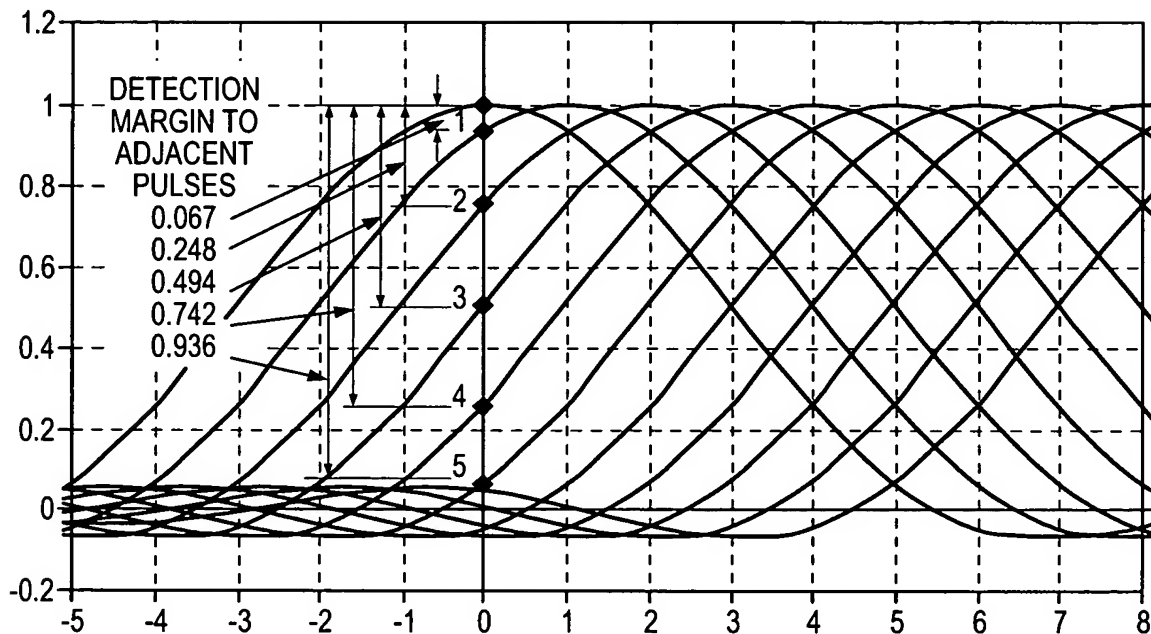


FIG.7



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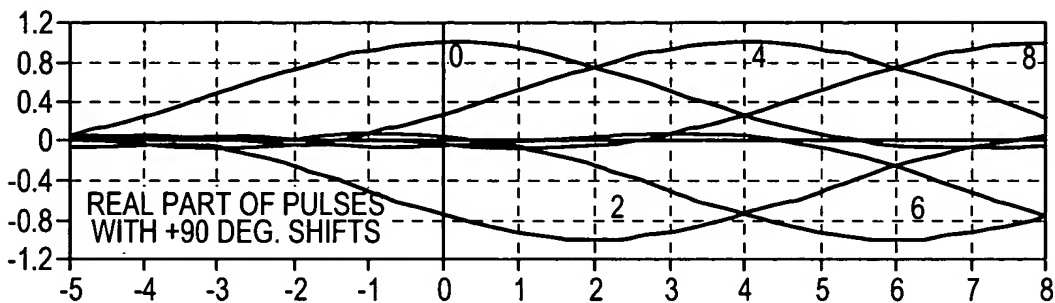


FIG.8A

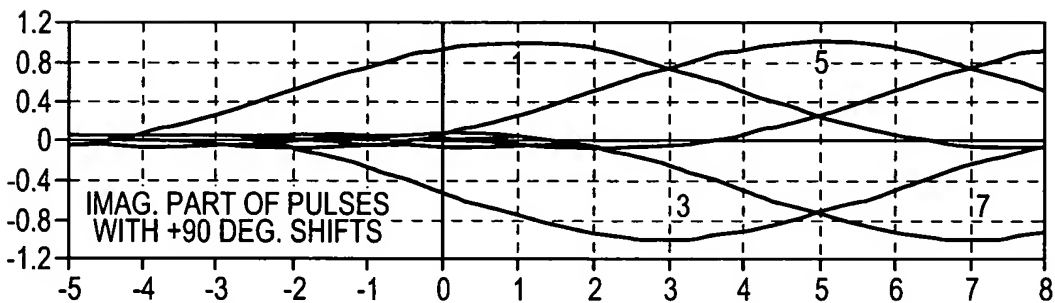


FIG.8B





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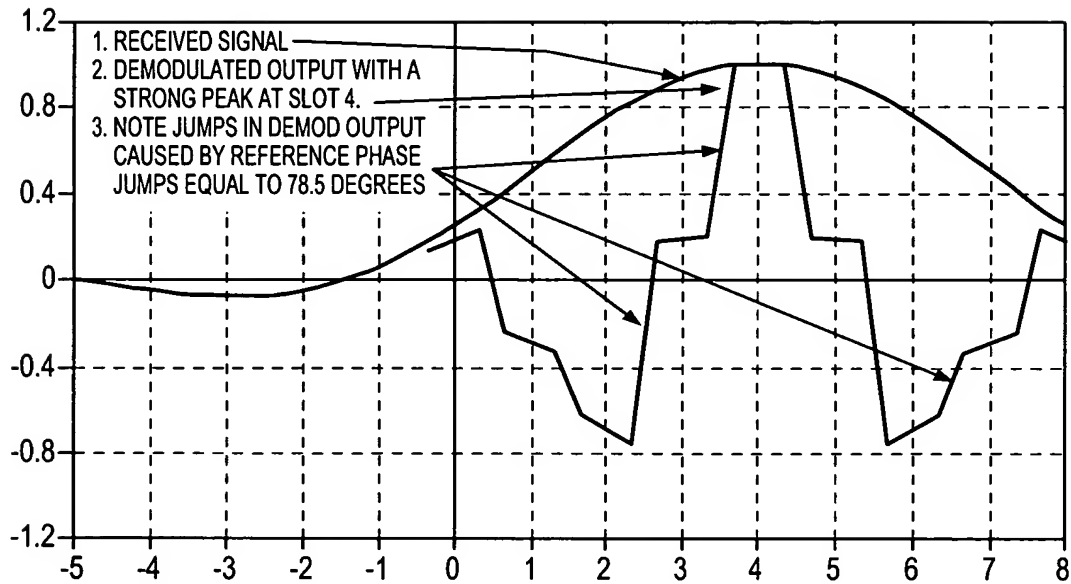


FIG.9



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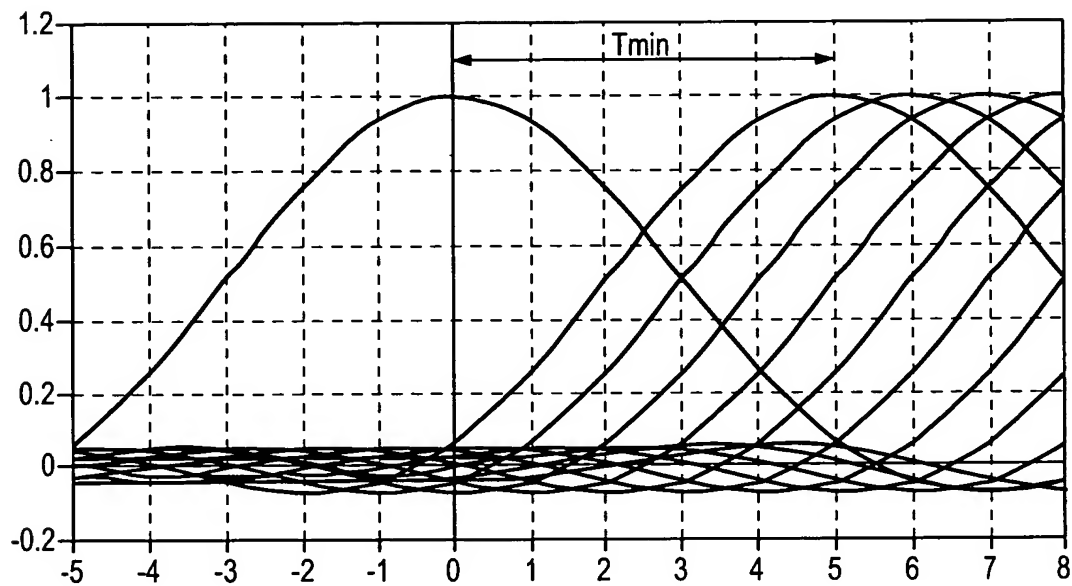


FIG.10

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THREE REFLECTORS WITH MINIMUM SPACING OF 5 SLOTS HAVE 286 POSSIBLE PLACEMENTS IN 21 SLOTS  
EACH ROW SHOWS A UNIQUE PLACEMENT FOR 2 ITEMS (X&Y) AND MULTIPLE PLACEMENT FOR THE 3RD (Z)

[illegible]



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STATE	0	1	2	3	4	5	6	7	8	9
0	X			Y						
1	X				Y					
2	X							Y		
3	X									Y
4		X			Y					
5		X				Y				
6		X							Y	
7			X			Y				
8			X					Y		
9			X							Y
10				X			Y			
11				X					Y	
12					X			Y		
13					X					Y
14						X			Y	
15							X			Y

A: IN-PHASE SUB-GROUP

FIG.12A

STATE	0	1	2	3	4	5	6	7	8	9
0	X			Y						
1	X					Y				
2	X							Y		
3	X									Y
4		X			Y					
5		X					Y			
6		X							Y	
7			X			Y				
8			X					Y		
9			X							Y
10				X			Y			
11				X					Y	
12					X			Y		
13					X					Y
14						X			Y	
15							X			Y

B: QUADRATURE PHASE SUB-GROUP

FIG.12B



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IN 10 SLOTS, TWO REFLECTORS WITH MINIMUM SPACING OF 2 SLOTS HAVE 36 POSSIBLE PLACEMENTS

STATE	0	1	2	3	4	5	6	7	8	9
0	X		Y							
1	X			Y						
2	X				Y					
3	X					Y				
4	X						Y			
5	X							Y		
6	X								Y	
7	X									Y
8		X		Y						
9		X			Y					
10		X				Y				
11		X					Y			
12		X						Y		
13		X							Y	
14		X								Y
15			X		Y					
16			X			Y				
17			X				Y			
18			X					Y		
19			X						Y	
20			X							Y
21				X		Y				
22				X			Y			
23				X				Y		
24				X					Y	
25				X						Y
26					X		Y			
27					X			Y		
28					X				Y	
29					X					Y
30						X		Y		
31						X			Y	
32						X				Y
33							X		Y	
34							X			Y
35								X		Y

FIG.13



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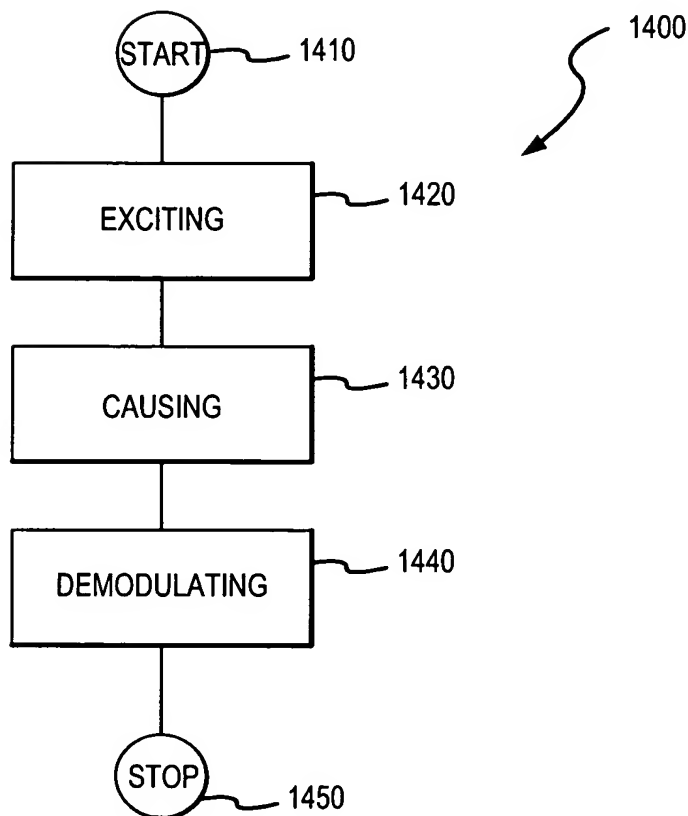


FIG.14



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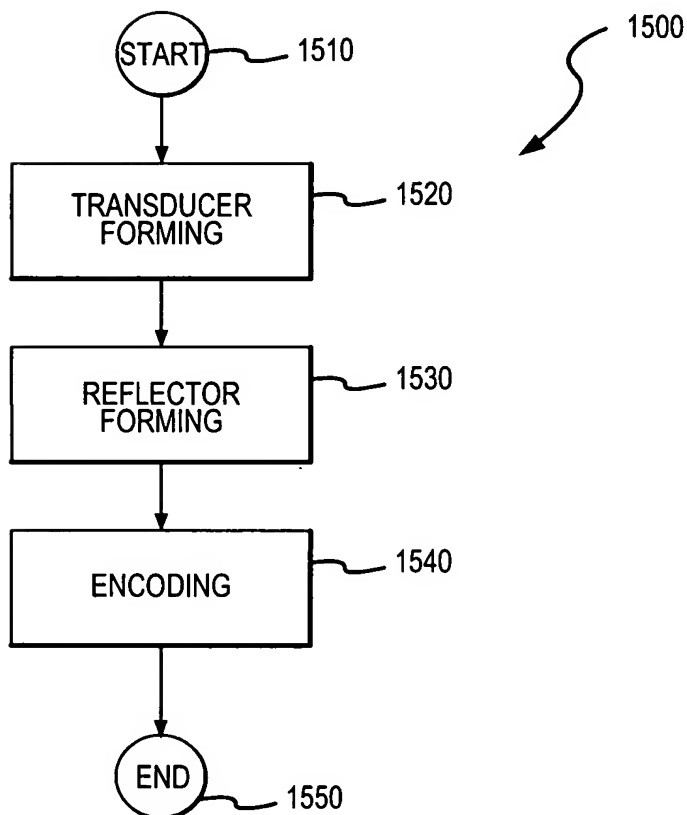


FIG.15